PATENT COOPERATION TREATY

PCT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

PCT

(PCT Article 36 and Rule 70)

Applicant's or ag	ent's file reference							
100.0037PCT		FOR FURTHER AC	TIOŅ	See Form PCT/IPEA/416				
International application No.		International filing date	(day/month/year)	Priority date (day/month/year)				
PCT/US04/31898		29 September 2004 (29 (09 2004)	30 September 2003 (30.09.2003)				
		or national classification an	d IPC	50 Ecptember 2003 (30.09.2003)				
IPC(7): A61F 2/0	6 and US Cl.: 623/1.15	, 1.17, 1.19, 1.2, 1.42						
Applicant		,						
ALVEOLUS INC.								
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This								
a. Sent to the applicant and to the International Bureau) a total of 2 sheets, as follows:								
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as								
indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This	report contains indica	ations relating to the follo	owing items:					
	Box No. I B	asis of the report						
	Box No. II Pr	riority						
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
. 🔲		ack of unity of invention						
\boxtimes	Box No. V Re	easoned statement under Article 35(2) with regard to novelty, inventive step or dustrial applicability; citations and explanations supporting such statement						
		dustrial applicability; cita ertain documents cited	itions and explanation	s supporting such statement				
		ertain defects in the intern	national application					
		rtain observations on the international application						
Date of submission of the demand		Date of completion of						
29 Tuly 2005 (20.0	7.000			21 and 10 post				
28 July 2005 (28.07.2005) Name and mailing address of the IPEA/US			14 September 2005 (14	1.09.2005)				
Mail Stop PCT, Attn: IPEA/US			Authorized officer	, , , ,				
Commissioner for Patents P.O. Box 1450			Alvin J. Stewart	Caron N. Greene for				
Alexandria, Virginia 22313-1450				•				
Facsimile No. (571) 273-3201 Form PCT/IPEA/409 (cover sheet)(April 2005)			Telephone No. 703-30	8-0858				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US04/31898	

Box No. I Basis of the report							
1. With regard to the language, this report is based on:							
the international application in the language in which it was filed.							
a translation of the international application into, which is the language of a translation furnished for the purposes of:							
international search (under Rules 12.3 and 23.1(b))	international search (under Rules 12.3 and 23.1(b))						
publication of the international application (under Rule 12.4)							
international preliminary examination (under Rules 55.2(a) a							
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
the international application as originally filed/furnished							
the description:							
pages 1-17 as originally filed/furnished							
pages* NONE received by this Authority on pages* NONE received by this Authority on							
the claims:	•						
pages NONE as originally filed/furnished							
pages* NONE as amended (together with any statement)	under Article 10						
pages 19 and 20 received by this Authority on 28 July 2005	5 (28.07.2005)						
pages* NONE received by this Authority on							
the drawings:							
pages 1/2-2/2 as originally filed/furnished							
pages* NONE received by this Authority on pages* NONE received by this Authority on							
a sequence listing and/or any related table(s) - see Supplemental B	ox Relating to Sequence Listing.						
3. The amendments have resulted in the cancellation of:							
the description, pages							
the claims, Nos							
the drawings, sheets/figs							
the sequence listing (specify):							
any table(s) related to the sequence listing (specify):							
4. This report has been established as if (some of) the amendments annexed to since they have been considered to go beyond the disclosure as filed, as inc	o this report and listed below had not been made, licated in the Supplemental Box (Rule 70.2(c)).						
the description, pages							
the claims, Nos							
the drawings, sheets/figs							
the sequence listing (specify):							
any table(s) related to the sequence listing (specify):							
1							
If item 4 applies, some or all of those sheets may be marked "superseded." rm PCT/IPEA/409 (Box No. I) (April 2005)							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/31898

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1. Statement	-						
Novelty (N)	Claims	1_6	VEC				
		1-6 NONE	YES NO				
			*.				
Inventive Step (IS)	Claims		YES				
	Claims	NONE	NO				
Industrial Applicability (IA)	Claims	1-6	YES				
	Claims		NO				
a plurality of flexible connectors extending between adjac along varying points of the longitudinal extension of the a . Claims 1-6 meet the criteria set out in PCT Article 33(4), be made or used in industry. NEW CITATIONS	and thus m	the appliance does not undersirably foreshorten or elongate	e.				
		•					

Form PCT/IPEA/409 (Box No. V) (April 2005)

CLAIMS:

1. A medical appliance for placement within a portion of the anatomy of a patient, the appliance comprising:

a scaffolding, the scaffolding configured to define a substantially cylindrical member having a distal end and a proximal end and extending longitudinally there between, forming a lumen there through, said scaffolding including:

at least three consecutive circumferential bands, each of the circumferential bands having peaks and valleys and

a plurality of flexible connectors extending between adjacent ones of the circumferential bands, each of said connectors connecting one of the peaks to one of the valleys;

such that when pressure is extended along varying points of the longitudinal extension of the appliance, the appliance does not undesirably foreshorten or elongate.

- 2. The medical appliance of claim 1, wherein the medical appliance scaffolding comprises a transition metal.
- 3. The medical appliance of Claim 2, wherein the transition metal is radioactive.
- 4. The medical appliance of Claim 3, wherein the radioactive signal is provided in a pharmaceutically acceptable amount to treat the target tissue with minimal collateral tissue exposure.
- 5. The medical appliance of Claim 1, wherein the medical appliance is radially contractable in response to exposure to a magnetic field.

6. A method of treating a patient with an obstruction inside a medical implant, comprising the steps of:

providing a medical appliance comprising a scaffolding, the scaffolding configured to define a substantially cylindrical member having a distal end and a proximal end and extending longitudinally there between, forming a lumen there through, along the longitudinal extension of the appliance the scaffolding forms geometrical patterns formed by angles, wherein the angles determine the relative flexibility of the medical appliance such that the appliance conforms to the topography of a target lumen and when pressure is exerted along varying points of the longitudinal extension of the appliance, the appliance does not undesirably foreshorten or elongate;

activating medical appliance contraction to force the obstruction to migrate; and

activating expansion of the medical appliance to the pre-contracted state.